PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 1789-13501	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/US2004/038807	International filing date (day/month/year) 19 November 2004 (19.11.2004)	Priority date (day/month/year) 19 November 2003 (19.11.2003)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant WILLIAM MARSH RICE UNIVERS	ITY		

1.	This international preliminary re International Searching Authority	port on patentability (Chapter I) is issued by the International Bureau on behalf of the y under Rule $44 \ bis.1(a)$.
2.	This REPORT consists of a total	of 4 sheets, including this cover sheet.
		nce to the written opinion of the International Searching Authority should be read as a reference eport on patentability (Chapter I) instead.
3.	This report contains indications i	relating to the following items:
	Box No. I	Basis of the report
	Box No. II	Priority
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
	Box No. IV	Lack of unity of invention
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	Box No. VI	Certain documents cited
	Box No. VII	Certain defects in the international application
	Box No. VIII	Certain observations on the international application
4.		mmunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but nakes an express request under Article 23(2), before the expiration of 30 months from the priority

	Date of issuance of this report 22 May 2006 (22.05.2006)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Beate Giffo-Schmitt
Facsimile No. +41 22 740 14 35	Telephone No. +41 22 338 87 20

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

REC'D	12	SEP	2005
WIPO		Mark Control	FOT

From the	WIPO FOT
INTERNATIONAL SEARCHING AUTHORITY	TO COTT
To: TIMOTHY S. WESTBY CONLEY ROSE, P.C.	PCT WRITTEN OPINION OF THE
P.O. BOX 3267 HOUSTON, TX 77253-3267	INTERNATIONAL SEARCHING AUTHORITY
	(PCT Rule 43bis.1)
	Date of mailing USSEP 2005 (day/month/year)
Applicant's or agent's file reference	FOR FURTHER ACTION See paragraph 2 below
1789-13501 International application No. International filing date	e (day/month/year) Priority date (day/month/year)
International appropriate	1 2003 (10.11.2003)
PCT/US04/38807 19 November 2004 (13 International Patent Classification (IPC) or both national classific	
IPC(7): C30B 7/14 and US Cl.: 117/11, 68; 977/Dig.1	
Applicant	
WILLIAM MARSH RICE UNIVERSITY	
1. This opinion contains indications relating to the following its	ems:
Box No. I Basis of the opinion	
Box No. II Priority	the description and inability
 	regard to novelty, inventive step and industrial applicability
Box No. IV Lack of unity of invention	to inventive step or industrial
Box No. V Reasoned statement under Rule 43 applicability; citations and explana	bis.1(a)(i) with regard to novelty, inventive step or industrial tions supporting such statement
Box No. VI Certain documents cited	
Box No. VII Certain defects in the international	application
Box No. VIII Certain observations on the interna	ational application
2. FURTHER ACTION	the desired opinion of the
If a demand for international preliminary examination is International Preliminary Examining Authority ("IPEA" Authority other than this one to be the IPEA and the cho that written opinions of this International Searching Author	made, this opinion will be considered to be a written opinion of the except that this does not apply where the applicant chooses an sen IPEA has notified the International Bureau under Rule 66.1bis(b) city will not be so considered.
of Form PCT/ISA/220 or before the expiration of 22 month	written opinion of the IPEA, the applicant is invited to submit to the mendments, before the expiration of 3 months from the date of mailing his from the priority date, whichever expires later.
For further options, see Form PCT/ISA/220.	
3. For further details, see notes to Form PCT/ISA/220.	
Name and mailing address of the ISA/US	Authorized officer
Mail Stop PCT, Attn: ISA/US	Gregory Mills Clark Color
Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450	Telephone No. (571) 272-1201
Alexandria, Virginia 225 is 1100	

Facsimile No. (703) 305-3230
Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US04/38807

Box No. I Basis of this opinion
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it
was filed, unless otherwise indicated under this item. This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
 With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
a. type of material
a sequence listing
table(s) related to the sequence listing
b. format of material
in written format
in computer readable form
c. time of filing/furnishing
contained in international application as filed.
filed together with the international application in computer readable form.
furnished subsequently to this Authority for the purposes of search.
In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/38807

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Statement		
	Claims 1-46	YES
Novelty (N)	Claims NONE	3.10
Inventive step (IS)	Claims <u>1-46</u>	
	Claims NONE	NO
	51. 1.46	YES.
Industrial applicability (IA)	Claims <u>1-46</u> Claims <u>NONE</u>	
	Claims NONE	
Claims 1-46 meet the criteria set out in PCT Articles olutions mixed to form semiconductor nanocrysta solutions and then quenching the mixed solution. Claims 1-46 meet the criteria set out in PCT Articles made or used in industry.		
		•
		•
		•
	•	
		٠.